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ABSTRACT

A method and apparatus for requesting PPP instances from a packet data
services network includes a mobile station configured to send an origination
message to a packet data service node (PDSN) at which it has arrived upon leaving
the vicinity of another PDSN. The message informs the new PDSN of the new
location of the mobile station and indicates both the number of dormant PPP
instances associated with the mobile station and a service reference identifier for
each such PPP instance. A flag within the message may be used to indicate
whether the PPP instances are dormant (i.e., whether the mobile station is engaged
in a call). Communications channel resources of packet data services nodes are
optimized by reducing the information included in messages from the Packet
Control Function network element to the Packet Data Service Node network
element, and by reducing the use of Mobile Internet Protocol agent advertisement.